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Title: **JP08217561A2: LIGHT-WEIGHT CALCIUM SILICATE FORMED BODY AND ITS PRODUCTION**

Derwent Title: Lightweight calcium silicate moulding for building materials - has specified porosity, interlayer strength and mean line surface roughness [\[Derwent Record\]](#)

Country: JP Japan

Kind: A

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Assignee: CHICHIBU ONODA CEMENT CORP  
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Published /  
Filed: 1996-08-27 / 1995-02-13

Application  
Number: JP1995000047751

IPC Code: C04B 38/00; C04B 28/18; C04B 38/08; C04B 40/02;  
C04B 28/18;

ECLA Code: C04B20/00D2; C04B28/18C;

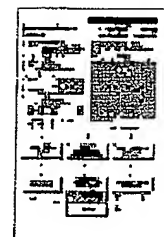
Priority  
Number: 1995-02-13 JP1995000047751

Abstract: PURPOSE: To improve the resistance to freezing damage to a formed body by forming the formed body having a specified bulk density, predicted closed cell rate, interlayer strength and average linear surface roughness.

CONSTITUTION: A material contg. 15-40wt. % portland cement, 10-20% slaked lime, 10-35% diatomaceous earth and 15-55% high-strength closed hollow balloons such as a fly ash balloon having high contents of active silica and aluminum, having a pozzolana action and having  $\leq 200\mu\text{m}$  diameter is used as the main raw material, and the CaO-to-SiO<sub>2</sub> molar ratio is controlled to 0.45-0.80. To the main raw material 5-7% pulp slurry, a reinforcing fiber such as carbon fiber and a thickener such as methylcellulose are added to form a slurry, and the slurry is dehydrated and press-formed. The formed body is allowed to stand for  $\geq 24\text{hr}$ , then cured and subjected to a hydrothermal synthesis to obtain a lightweight calcium silicate formed body having 0.4-0.9 bulk density,  $\geq 15\%$  predicted closed cell rate shown by the expression (porosity =  $1 - \text{bulk density}/\text{true sp.gr.}$ ),  $\geq 5\text{kgf/cm}^2$  interlayer strength and  $\leq 10\mu\text{m}$  average linear surface roughness according to JIS B0601.

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Family: None




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References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6572697</a>	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract  
Info:

CHEMABS 125(24)307361G CAN125(24)307361G DERABS C96-439366 DERC96-439366



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